

GUANGYANG SECONDARY SCHOOL
2023 Semester Plan
Sec 3T – Design & Technology

Term 1	Topic	Remarks
Week 1	1. Coursework Essentials & Expectations/ Design Model / Design Process. 2. Basic Sketching: Cube Manipulation (Emphasis: sketching skills)	
Week 2	1. Basic Sketching; Forms Sketching Techniques 2. Basic Sketching; Forms Sketching Techniques (Emphasis: sketching skills)	
Week 3	1. Basic Sketching; Forms Sketching Techniques 2. Basic Sketching; Forms Sketching Techniques (Emphasis: sketching skills)	
Week 4 & Week 5	1. Initial Ideas – Based on defined design brief 2. Ideation – Based on Shape Borrowing technique (ACT 1) 3. Ideation – Based on SCAMPER technique (ACT 2) (Emphasis: sketching skills, presenting ideas)	CNY Holidays
Week 6	1. GDI, Sketching to Design (Emphasis: sketching skills, presenting ideas, ACT3) 2. Practical Session	
Week 7	1. Design Model, Project Planning 2. WA1* / Mechanism Lesson 1	e-Ped (Project Planning)
Week 8	1. Need Definition, Situation and Design Opportunity. Initial Ideas/Solutions 2. Mechanism Lesson 2	
Week 9	1. Design Brief. Research techniques on UEF – Research outline, observations, interview, survey. 2. Mechanism Lesson 3	
Week 10	1. Research on UEF 2. Practical Session	WEALTH Wk
Term 2	Topic	
Week 1	1. Research techniques on UEF – Product Analysis, PMI, SWOT 2. Mechanism Lesson 4	
Week 2	1. Research Conclusion, Design Considerations, Specifications 2. Practical Session	
Week 3	1. GDI - Ideation. 2. Electronics Lesson 1	Good Friday e-Ped
Week 4	1. GDI – Ideation. 2. Electronics Lesson 2	
Week 5	1. GDI – Ideation and Development (wrt UEF). 2. Electronics Lesson 3	Hari Raya Puasa
Week 6	1. GDI – Ideation and Development (wrt UEF). 2. Electronics Lesson 4	
Week 7	1. GDI (wrt UEF) – Data collection of important items. 2. Electronics Lesson 5	Labour Day
Week 8	1. GDI (wrt UEF) – Anthropometry and Ergonomics 2. WA2* / Practical Session	

Week 9	1. GDI (wrt UEF) – Critical Dimensioning 2. Practical Session	
Week 10	1. Practical Session 2. Practical Session	
Term 3	Topic	
Week 1	1. GDI (wrt UEF) – Mock-up construction 2. GDI (wrt UEF) – Mock-up construction	Hari Raya Haji
Week 2	1. GDI (wrt UEF) – Mock-up construction 2. GDI (wrt UEF) – Mock-up construction	
Week 3 & Week 4	1. GDI (wrt UEF) – Mock-up testing and idea improvement 2. GDI (wrt UEF) – Mock-up testing and idea improvement	
Week 5 & Week 6	1. GDI (wrt UEF) – Final Idea, fine tuning dimension 2. Drafting material list	
Week 7 & Week 8	1. Working drawings, Part drawings 2. WA3*	National Day
Week 9	1. Practical Session (Electronic circuit construction) 2. Practical Session (Electronic circuit construction)	
Week 10	- Revision: TYS (Design)	Teacher Day
Term 4	Topic	
Week 1	- Revision: TYS (Mechanism)	
Week 2	- Revision: TYS (Electronics)	
Week 3	End of Year Examinations	
Week 4	End of Year Examinations	
Week 5	1. Review of EOY exam paper & key points. 2. Presentation Board: Presentation Drawing, Contextual Use Drawing	
Week 6	Head Start Programme Presentation Board: Presentation Drawing, Contextual Use Drawing, Product Rendering	
Week 7 (Last day of school 27/10)	Head Start Programme Presentation Board: Presentation Drawing, Contextual Use Drawing, Product Rendering	

Assessment

WA1, WA2, WA3	15%	15%	15%
	Written Tests*		
EOY Exam	55%		
	Written Exam + Coursework		

**Please note that the topics might be subject to minor changes. Students will be updated accordingly.*